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11/06#5
CRFI

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RAW SEQUENCE LISTING

DATE: 10/09/2001

PATENT APPLICATION: US/09/682,667

TIME: 06:44:24

Input Set : C:\Crf3\Datahold\EFS\09682667\Seqlist.txt

Output Set: N:\CRF3\10092001\I682667.raw

ENTERED

4 <110> APPLICANT: Hsueh, Aaron J.W.
5 Hsu, Sheau Yu
8 <120> TITLE OF INVENTION: MAMMALIAN PRO-APOPTOTIC BOK GENES AND
9 THEIR USES
11 <130> FILE REFERENCE: STAN072CON
13 <140> CURRENT APPLICATION NUMBER: 09/682,667
C--> 14 <141> CURRENT FILING DATE: 2001-10-05
16 <150> PRIOR APPLICATION NUMBER: 09/517,358
17 <151> PRIOR FILING DATE: 2000-03-02
19 <150> PRIOR APPLICATION NUMBER: 09/186,250
20 <151> PRIOR FILING DATE: 1998-11-04
22 <150> PRIOR APPLICATION NUMBER: 60/064,943
23 <151> PRIOR FILING DATE: 1997-11-07
25 <160> NUMBER OF SEQ ID NOS: 18
27 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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30 <211> LENGTH: 642
31 <212> TYPE: DNA
32 <213> ORGANISM: r. rattus
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37 gcgcggttt tgcgcgcgg cctctcctgg agcgtccag agcgtgcctc gcctgcccct 180
38 ggaggacgcc tggcagaggt gtgcaccgtg ctgctgcgt tgggagatga gctggagcag 240
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41 tggggcaagg tagtgtccct gtactcgggt gctgcgggac tagcggtgga ctgcgtccgg 420
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43 accctggcca cctggcttcg gaggcgtggt ggatggacgg acgtcctcaa gtgtgtggtc 540
44 agcacagacc ctggcttcctg ctcccactgg ctcgtggcca cactctgcag ctttggccgc 600
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48 <211> LENGTH: 213
49 <212> TYPE: PRT
50 <213> ORGANISM: r. rattus
52 <400> SEQUENCE: 2
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54 1 5 10 15
55 Ala Phe Asp Arg Ser Pro Thr Asp Lys Glu Leu Val Ala Gln Ala Lys
56 20 25 30
57 Ala Leu Gly Arg Glu Tyr Val His Ala Arg Leu Leu Arg Ala Gly Leu
58 35 40 45
59 Ser Trp Ser Ala Pro Glu Arg Ala Ser Pro Ala Pro Gly Gly Arg Leu
60 50 55 60
61 Ala Glu Val Cys Thr Val Leu Leu Arg Leu Gly Asp Glu Leu Glu Gln
62 65 70 75 80
63 Ile Arg Pro Ser Val Tyr Arg Asn Val Ala Arg Gln Leu His Ile Pro

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64		85		90		95	
65	Leu Gln Ser Glu Pro Val Val Thr Asp Ala Phe Leu Ala Val Ala Gly						
66		100		105		110	
67	His Ile Phe Ser Ala Gly Ile Thr Trp Gly Lys Val Val Ser Leu Tyr						
68		115		120		125	
69	Ser Val Ala Ala Gly Leu Ala Val Asp Cys Val Arg Gln Ala Gln Pro						
70		130		135		140	
71	Ala Met Val His Ala Leu Val Asp Cys Leu Gly Glu Phe Val Arg Lys						
72	145		150		155		160
73	Thr Leu Ala Thr Trp Leu Arg Arg Arg Gly Gly Trp Thr Asp Val Leu						
74		165		170		175	
75	Lys Cys Val Val Ser Thr Asp Pro Gly Phe Arg Ser His Trp Leu Val						
76		180		185		190	
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84	<211> LENGTH: 513						
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86	<213> ORGANISM: r.rattus						
88	<220> FEATURE:						
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94	Met Glu Val Leu Arg Arg Ser Ser Val Phe Ala Ala Glu Ile Met Asp						
95	1 5 10 15						
97	gcc ttt gat cgc tcg ccc aca gac aag gag ctg gtg gcc cag gct aaa						96
98	Ala Phe Asp Arg Ser Pro Thr Asp Lys Glu Leu Val Ala Gln Ala Lys						
99	20 25 30						
101	gca cta ggc cgg gag tac gtg cac gcg cgg ctt ttg cgc gcc ggc ctc						144
102	Ala Leu Gly Arg Glu Tyr Val His Ala Arg Leu Leu Arg Ala Gly Leu						
103	35 40 45						
105	tcc tgg agc gct cca gag cgt gcc tcg cct gcc cct gga gga cgc ctg						192
106	Ser Trp Ser Ala Pro Glu Arg Ala Ser Pro Ala Pro Gly Gly Arg Leu						
107	50 55 60						
109	gca gag gtg tgc acc gtg ctg ctg cgc ttg gga atc aca tgg ggc aag						240
110	Ala Glu Val Cys Thr Val Leu Leu Arg Leu Gly Ile Thr Trp Gly Lys						
111	65 70 75 80						
113	gta gtg tcc ctg tac tcg gtg gct gcg gga cta gcg gtg gac tgc gtc						288
114	Val Val Ser Leu Tyr Ser Val Ala Ala Gly Leu Ala Val Asp Cys Val						
115	85 90 95						
117	cgg caa gct cag cca gcc atg gtt cat gcc ctg gtt gac tgc ctg ggg						336
118	Arg Gln Ala Gln Pro Ala Met Val His Ala Leu Val Asp Cys Leu Gly						
119	100 105 110						
121	gaa ttt gta cgc aag acc ctg gcc acc tgg ctt cgg agg cgt ggt gga						384
122	Glu Phe Val Arg Lys Thr Leu Ala Thr Trp Leu Arg Arg Arg Gly Gly						
123	115 120 125						

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125 tgg acg gac gtc ctc aag tgt gtg gtc agc aca gac cct ggc ttc cgc      432
126 Trp Thr Asp Val Leu Lys Cys Val Val Ser Thr Asp Pro Gly Phe Arg
127      130                      135                      140
129 tcc cac tgg ctc gtg gcc aca ctc tgc agc ttt ggc cgc ttc ctg aag      480
130 Ser His Trp Leu Val Ala Thr Leu Cys Ser Phe Gly Arg Phe Leu Lys
131 145                      150                      155                      160
133 gct gca ttc ttc ctc ctg ttg cca gag aga tga      513
134 Ala Ala Phe Phe Leu Leu Leu Pro Glu Arg *
135                      165                      170
138 <210> SEQ ID NO: 4
139 <211> LENGTH: 170
140 <212> TYPE: PRT
141 <213> ORGANISM: r.rattus
143 <400> SEQUENCE: 4
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145 1                      5                      10                      15
146 Ala Phe Asp Arg Ser Pro Thr Asp Lys Glu Leu Val Ala Gln Ala Lys
147      20                      25                      30
148 Ala Leu Gly Arg Glu Tyr Val His Ala Arg Leu Leu Arg Ala Gly Leu
149      35                      40                      45
150 Ser Trp Ser Ala Pro Glu Arg Ala Ser Pro Ala Pro Gly Gly Arg Leu
151      50                      55                      60
152 Ala Glu Val Cys Thr Val Leu Leu Arg Leu Gly Ile Thr Trp Gly Lys
153 65                      70                      75                      80
154 Val Val Ser Leu Tyr Ser Val Ala Ala Gly Leu Ala Val Asp Cys Val
155      85                      90                      95
156 Arg Gln Ala Gln Pro Ala Met Val His Ala Leu Val Asp Cys Leu Gly
157      100                     105                     110
158 Glu Phe Val Arg Lys Thr Leu Ala Thr Trp Leu Arg Arg Arg Gly Gly
159      115                     120                     125
160 Trp Thr Asp Val Leu Lys Cys Val Val Ser Thr Asp Pro Gly Phe Arg
161      130                     135                     140
162 Ser His Trp Leu Val Ala Thr Leu Cys Ser Phe Gly Arg Phe Leu Lys
163 145                     150                     155                     160
164 Ala Ala Phe Phe Leu Leu Leu Pro Glu Arg
165      165                     170
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170 <212> TYPE: DNA
171 <213> ORGANISM: H.sapiens
173 <220> FEATURE:
174 <221> NAME/KEY: CDS
175 <222> LOCATION: (1)...(642)
177 <400> SEQUENCE: 5
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180 1                      5                      10                      15
182 gcc ttt gat cgc tgg ccc aca gac aag gag ctg gtg gcc cag gct aaa      96
183 Ala Phe Asp Arg Trp Pro Thr Asp Lys Glu Leu Val Ala Gln Ala Lys

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Output Set: N:\CRF3\10092001\I682667.raw

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184          20          25          30
186 gca cta ggc cgg gag tac gtg cac gcg cgg ctt ttg cgc gcc ggc ctc      144
187 Ala Leu Gly Arg Glu Tyr Val His Ala Arg Leu Leu Arg Ala Gly Leu
188          35          40          45
190 tcc tgg agc gct cca gag cgt gcc tcg cct gcc cct gga gga cgc ctg      192
191 Ser Trp Ser Ala Pro Glu Arg Ala Ser Pro Ala Pro Gly Gly Arg Leu
192          50          55          60
194 gca gag gtg tgc acc gtg ctg ctg cgc ttg gga gat gag ctg gag cag      240
195 Ala Glu Val Cys Thr Val Leu Leu Arg Leu Gly Asp Glu Leu Glu Gln
196          65          70          75          80
198 atc cgt ccc agc gta tat cgg aat gtg gcc cgg cag ctg cac atc cct      288
199 Ile Arg Pro Ser Val Tyr Arg Asn Val Ala Arg Gln Leu His Ile Pro
200          85          90          95
202 ctg cag tct gag cct gtg gtg act gat gcc ttc ctc gct gtg gcc ggc      336
203 Leu Gln Ser Glu Pro Val Val Thr Asp Ala Phe Leu Ala Val Ala Gly
204          100          105          110
206 cac atc ttc tca gca ggt atc aca tgg ggc aag gta gtg tcc ctg tac      384
207 His Ile Phe Ser Ala Gly Ile Thr Trp Gly Lys Val Val Ser Leu Tyr
208          115          120          125
210 tcg gcg gct gcg gga cta gcg gtg gac tgc gtc cgg caa gct cag cca      432
211 Ser Ala Ala Ala Gly Leu Ala Val Asp Cys Val Arg Gln Ala Gln Pro
212          130          135          140
214 gcc atg gtt cat gcc ctg gtt gac tgc ctg ggg gaa ttt gta cgc aag      480
215 Ala Met Val His Ala Leu Val Asp Cys Leu Gly Glu Phe Val Arg Lys
216          145          150          155          160
218 acc ttg gct acc tgg ctt cgg agg cgt ggt gga tgg acg gac gtc ctc      528
219 Thr Leu Ala Thr Trp Leu Arg Arg Arg Gly Gly Trp Thr Asp Val Leu
220          165          170          175
222 aag tgt gtg gtc agc aca aaa cct ggc ttc cgc tcc cac tgg ctc gtg      576
223 Lys Cys Val Val Ser Thr Lys Pro Gly Phe Arg Ser His Trp Leu Val
224          180          185          190
226 gcc aca ctc tgc agc ttt ggc cgc ttc ctg aag gct gca ttc ttc ctc      624
227 Ala Thr Leu Cys Ser Phe Gly Arg Phe Leu Lys Ala Ala Phe Phe Leu
228          195          200          205
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237 <212> TYPE: PRT
238 <213> ORGANISM: H.sapiens
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244          20          25          30
245 Ala Leu Gly Arg Glu Tyr Val His Ala Arg Leu Leu Arg Ala Gly Leu
246          35          40          45
247 Ser Trp Ser Ala Pro Glu Arg Ala Ser Pro Ala Pro Gly Gly Arg Leu

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248	50	55	60	
249	Ala Glu Val Cys Thr Val Leu Leu Arg Leu Gly Asp Glu Leu Glu Gln			
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251	Ile Arg Pro Ser Val Tyr Arg Asn Val Ala Arg Gln Leu His Ile Pro			
252		85	90	95
253	Leu Gln Ser Glu Pro Val Val Thr Asp Ala Phe Leu Ala Val Ala Gly			
254		100	105	110
255	His Ile Phe Ser Ala Gly Ile Thr Trp Gly Lys Val Val Ser Leu Tyr			
256		115	120	125
257	Ser Ala Ala Ala Gly Leu Ala Val Asp Cys Val Arg Gln Ala Gln Pro			
258		130	135	140
259	Ala Met Val His Ala Leu Val Asp Cys Leu Gly Glu Phe Val Arg Lys			
260	145	150	155	160
261	Thr Leu Ala Thr Trp Leu Arg Arg Arg Gly Gly Trp Thr Asp Val Leu			
262		165	170	175
263	Lys Cys Val Val Ser Thr Lys Pro Gly Phe Arg Ser His Trp Leu Val			
264		180	185	190
265	Ala Thr Leu Cys Ser Phe Gly Arg Phe Leu Lys Ala Ala Phe Phe Leu			
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267	Leu Leu Pro Glu Arg			
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282	Met Glu Val Leu Arg Arg Ser Ser Val Phe Ala Ala Glu Ile Met Asp			
283	1 5 10 15			
285	gcc ttt gat cgc tgg ccc aca gac aag gag ctg gtg gcc cag gct aaa	96		
286	Ala Phe Asp Arg Trp Pro Thr Asp Lys Glu Leu Val Ala Gln Ala Lys			
287	20 25 30			
289	gca cta ggc cgg gag tac gtg cac gcg cgg ctt ttg cgc gcc ggc ctc	144		
290	Ala Leu Gly Arg Glu Tyr Val His Ala Arg Leu Leu Arg Ala Gly Leu			
291	35 40 45			
293	tcc tgg agc gct cca gag cgt gcc tcg cct gcc cct gga gga cgc ctg	192		
294	Ser Trp Ser Ala Pro Glu Arg Ala Ser Pro Ala Pro Gly Gly Arg Leu			
295	50 55 60			
297	gca gag gtg tgc acc gtg ctg ctg cgc ttg gga atc aca tgg ggc aag	240		
298	Ala Glu Val Cys Thr Val Leu Leu Arg Leu Gly Ile Thr Trp Gly Lys			
299	65 70 75 80			
301	gta gtg tcc ctg tac tcg gcg gct gcg gga cta gcg gtg gac tgc gtc	288		
302	Val Val Ser Leu Tyr Ser Ala Ala Ala Gly Leu Ala Val Asp Cys Val			
303	85 90 95			
305	cgg caa gct cag cca gcc atg gtt cat gcc ctg gtt gac tgc ctg ggg	336		
306	Arg Gln Ala Gln Pro Ala Met Val His Ala Leu Val Asp Cys Leu Gly			

VERIFICATION SUMMARY

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Input Set : C:\Crf3\Datahold\EFS\09682667\Seqlist.txt

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L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date